DSU IQ QUICK START GUIDE

Installation and Configuration

1. Plug in AC power, press and hold the **Quick** key, and turn unit on. This sets the unit to the factory default settings.
2. If a problem is detected during Self Test, contact ADTRAN Technical Support.
3. Activate menu item selections either by pressing the corresponding number (if applicable) on the keypad or by scrolling to the selection using the arrow keys. The cursor will flash on the first character of the activated selection. Press **Enter** to select the activated menu item. See the Front Panel Keys section in the right column of this page for more guidelines on using the front panel interface.
4. Using a 4-wire telco cable, connect the DSU IQ's telco connector to the telco jack. The unit should establish synchronization with the DDS network. Verify synchronization by viewing the DSU Loop State (STATS >NETWORK PORT >DSU LOOP STATE). If this field displays a message other than 56K or 64K NORMAL, refer to the Troubleshooting section below.
5. Connect unit to a router using either an EIA-232 or V.35 cable. If EIA-232 is used, select EIA-232 as the Interface Type (CONFIG >DTE PORT >PHYS LAYER >INTERFACE >EIA-232).
6. The DSU IQ should be exchanging frame relay PVC signaling messages with the network. If the Signaling State (STATS >NETWORK PORT >SIGNAL STATE) displays DOWN after one minute, see the Troubleshooting section below.
7. Configure the PVC Options (CONFIG >NETWORK PORT >PVC CONFIG) and the Management Options (CONFIG >SYSTEM) as desired for your application.

Troubleshooting

Unit not in sync with DDS:
1. Ensure that the timing source is correct. By default, the DSU IQ derives timing from the network (CONFIG >NETWORK PORT >PHYS LYR OPT >CLOCK SOURCE).
2. The factory default setting for the network loop rate is AUTO. Setting the unit to 56K or 64K to match the network connection may correct the problem (CONFIG >NETWORK PORT >PHYS LYR OPT >LOOP RATE).

Network Signaling State is down:
The factory default setting for the signaling type is AUTO. Setting the unit to the expected PVC signaling format may correct the problem (CONFIG >NETWORK PORT >FR OPT >SIGNAL).

Testing

To verify data integrity across the frame relay network, perform a PVC loopback test for each PVC (TEST >PVC LOOPBACK). This test is non-intrusive and can be performed on all PVCs or on an individual PVC.

Front Panel Keys

Enter: Selects the active menu item.

Arrows: Scroll through and activate the menu items of the current menu. The flashing cursor indicates the active parameter.

Cancel: Stops current activity and returns to previous menu.

Numeric Keypad: Activates menu items and enters numeric information.

Next, Prev, Add, and Delete: For use when editing tables such as the PVC Options table. You must press and release the **Shift** key first to activate these keys.

Quick: Resets the unit to factory default settings. To reset, press and hold this key when turning the DSU IQ power on. When defaults are successfully loaded, the unit name displayed in the LCD is followed by an exclamation point (!).

DSU IQ TERMINAL MENU TREE

1 CONFIGURATION
- 1 DTE PORT
  - 1 PHYSICAL LAYER
    - 1 INTERFACE TYPE
      - 1 EIA-232
      - 2 V.35
    - 2 TD CLOCK SOURCE
      - 1 INTERNAL
      - 2 EXTERNAL
    - 3 FLOW CONTROL
      - 1 NONE
      - 2 HARDWARE
      - 3 FECN/BECN
    - 4 CTS OPTION
      - 1 FORCED ON
      - 2 FOLLOW RTS
    - 5 DSR OPTION
      - 1 FORCED ON
    - 6 CD OPTION
      - 2 NORMAL
  - 2 FRAME RELAY OPTIONS
    - 1 T392
    - 2 N392
    - 3 N393
    - 4 MANAGEMENT DLCI
    - 5 MANAGEMENT PVC OPTION
      - 1 ENABLED
      - 2 DISABLED
    - 6 SIGNALING RESPONSES
      - 1 ALWAYS ON
      - 2 FOLLOW NETWORK
- 2 NETWORK PORT
  - 1 PHYSICAL LAYER OPTIONS
    - 1 LOOP RATE
      - 1 56 K
      - 2 64 K
      - 3 AUTO
    - 2 CLOCK SOURCE
      - 1 INTERNAL
      - 2 FROM NETWORK
  - 2 FRAME RELAY OPTIONS
    - 1 SIGNAL TYPE
      - 1 NONE
      - 2 LMI
      - 3 ANSI T1.617-D
      - 4 ITU-T Q.933-A
      - 5 AUTO
    - 2 T391
    - 3 N391
    - 4 N392
    - 5 N393
  - 3 MANAGEMENT DLCI 1
  - 4 MANAGEMENT DLCI 2
  - 5 MANAGEMENT DLCI 1 MODE
    - 1 SHARED
  - 6 MANAGEMENT DLCI 2 MODE
    - 2 DEDICATED
  - 7 MAX PVC COUNT
  - 8 HISTORY INTERVAL COUNT
  - 9 PVC OPTIONS
    - 1 DLCI
    - 2 DBU DLCI
    - 3 CIR (Kbps)
    - 4 SEQ NUM CHECKING
      - 1 DISABLED
      - 2 ENABLED
    - 5 DELAY MEASUREMENT
    - 6 STATS OPTION
      - 1 AUTO
      - 2 ENABLE
      - 3 DISABLE
    - 7 NEXT
    - 8 PREVIOUS
    - 9 ADD
    - 10 DELETE
- 3 SYSTEM
  - 1 CHANGE PASSWORD
  - 2 IP ADDRESS*
  - 3 SUBNET MASK*
  - 4 GATEWAY IP ADDRESS*
  - 5 CONTROL PORT OPTIONS
    - 1 TERMINAL
    - 2 SLIP PROTOCOL
    - 3 PPP PROTOCOL
  - 6 READ COMMUNITY NAME
  - 7 WRITE COMMUNITY NAME
  - 8 TRAP MGR OPTIONS
    - 1 TRAP MANAGER DLCI
    - 2 TRAP MANAGER IP ADDRESS
    - 3 TRAP MANAGER PORT
      - 1 NONE
      - 2 DTE PORT
      - 3 NETWORK PORT
      - 4 CONTROL PORT
      - 5 ETHERNET PORT*
    - 4 NEXT
    - 5 PREVIOUS
    - 6 ADD
    - 7 DELETE
  - 9 PROTOCOL 1
  - 10 PROTOCOL 2
    - 1 NONE
    - 2 IP
    - 3 IPX
    - 4 ARP
    - 5 SNA
    - 6 UNKNOWN
  - 11 SYSTEM TIME
  - 12 SYSTEM DATE
  - 13 HISTORY INTERVAL SIZE
    - 1 5 MINUTES
    - 2 10 MINUTES
    - 3 15 MINUTES
    - 4 20 MINUTES
    - 5 30 MINUTES

2 VIEW STATISTICS
- 1 DTE PORT
- 2 NETWORK PORT
- 3 LAYER 3 STATS
- 4 TOP TALKERS
- 5 DLCI LIST
- 6 SYSTEM
- 7 RESET STATISTICS

3 TEST
- 1 PING*
  - 1 PING ADDRESS
    - PINGS SENT
    - RESPONSES
    - MIN TIME
    - MAX TIME
    - AVG TIME
  - 2 START PING
- 2 PVC LOOPBACK
  - 1 DLCI
  - 2 TEST LEN : MIN <0=UNTIMED>
  - 3 START TEST
  - 4 STOP TEST
  - 5 VIEW TEST
  - 6 RESET TEST STATS
  - 7 VIEW DLCI LIST

4 LOGOUT

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* These options are only available when the Ethernet card is installed.

** If a Dial Backup (DBU) card is installed, refer to the *DSU IQ User Manual* for a menu tree of the related DBU and Dialing configuration options.